

PATENT ABSTRACTS OF JAPAN

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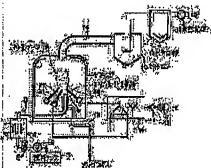
TAKARADA MASAOKI

(54) PRODUCTION OF CARBON CLUSTER

(57)Abstract:

PURPOSE: To obtain inexpensively a large amt. of carbon cluster by impressing a voltage on the plural electrodes formed in an arc furnace to generate a multiarc and injecting a carbon source material into the multiarc.

CONSTITUTION: An arc furnace 1 is evacuated by a vacuum pump 12, a stabilized arc discharge is generated between the electrodes by impressing a three-phase AC voltage on a multiarc electrode 2, and a multiarc A is generated. A raw gas as a carbon source is introduced into the multiarc A along with gaseous argon, hence the raw gas is decomposed in an instant, and the plasma of H, C, etc., is produced. The plasma is blown off at a high speed by the rotating electromagnetic field and ascends in the arc furnace 1. Since the temp. and pressure in the furnace 1 are controlled, the plasma is entrained by the argon current and gradually cooled, hence the carbon atoms are recombined, and the soot is formed. The carbon cluster is contained in the soot, and the carbon cluster is recovered.



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